

## Assoc. Prof. Özgen AÇIKGÖZ

### Personal Information

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**Address:** Görüşme saatleri: Pazartesi: 13:00-14:00 Çarşamba: 11:00-11:50

### Education Information

Doctorate, Yıldız Technical University, Graduate School of Natural and Applied Sciences, Turkey 2007 - 2013

Post Graduate, Yıldız Technical University, Graduate School of Natural and Applied Sciences, Turkey 2005 - 2007

Under Graduate, Bursa Uludağ University, Faculty Of Engineering-Architecture, Turkey 2001 - 2005

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, DUVARLARINDAN ISITILAN VE SOĞUTULAN KAPALI HACİMLERDE DOĞAL TAŞINIMIN İNCELENMESİ, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Makine Mühendisliği Bölümü, 2013

Post Graduate, BİR BİRLEŞİK ENERJİ SİSTEMİNDE GÜNEŞ ENERJİSİ DESTEĞİNİN ARAŞTIRILMASI, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Makine Mühendisliği , 2007

### Research Areas

Mechanical Engineering, Energy, Thermodynamics, Heat and Mass Transfer, Heating, Refrigerating and Air Conditioning, Computational fluid dynamics, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Yıldız Teknik Üniversitesi, Faculty of Mechanical Engineering, Makine Mühendisliği , 2005 - Continues

### Professional Experience

Erasmus Coordinator, Yıldız Technical University, Faculty of Mechanical Engineering, Department of Mechanical Engineering, 2016 - Continues

### Courses

Proje 1, Under Graduate, 2018 - 2019, 2019 - 2020  
Graduation Thesis, Under Graduate, 2018 - 2019, 2019 - 2020  
Thermodynamics 2, Under Graduate, 2019 - 2020  
Fluid Mechanics 1, Under Graduate, 2018 - 2019, 2019 - 2020  
Uzmanlık Alan Dersi, Post Graduate, 2019 - 2020  
Isı deęiřtirici tasarımı, Post Graduate, 2019 - 2020  
Thermodynamics, Under Graduate, 2019 - 2020  
Project 2, Under Graduate, 2018 - 2019, 2019 - 2020  
Graduation Thesis, Post Graduate, 2019 - 2020  
Termodinamik 1, Under Graduate, 2019 - 2020  
Heat Transfer in Bioengineering, Under Graduate, 2019 - 2020  
Heat Transfer 1, Under Graduate, 2018 - 2019, 2019 - 2020  
BUILDING AUTOMATION AND ENERGY MANAGEMENT, Under Graduate, 2017 - 2018  
Bilgisayar Destekli Teknik Resim, Under Graduate, 2013 - 2014

## Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, October, 2019  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, June, 2019  
Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, April, 2019  
Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, December, 2018

## Taught Courses And Trainings

Açıkğöz Ö., BİNA ENERJİ YÖNETİCİSİ EĞİTİMİ, 2011 - 2011

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **An experimental investigation on heat transfer characteristics arising over an underfloor cooling system exposed to different radiant heating loads through walls**  
Karakoyun Y., Açıkğöz Ö., Yumurtacı Z., Dalkılıç A. S.  
APPLIED THERMAL ENGINEERING, vol.164, 2020 (Journal Indexed in SCI)
- II. **Single phase flow of nanofluid including graphite and water in a microchannel**  
Yıldız O., Açıkğöz Ö., Yıldız G., Bayrak M., Dalkılıç A. S. , Wongwises S.  
Heat and Mass Transfer/Waerme- und Stoffuebertragung, vol.56, pp.1-24, 2020 (Journal Indexed in SCI)
- III. **Realistic experimental heat transfer characteristics of radiant floor heating using sidewalls as heat sinks**  
Açıkğöz Ö., Karakoyun Y., Yumurtacı Z., Dukhan N., Dalkılıç A. S.  
ENERGY AND BUILDINGS, vol.183, pp.515-526, 2019 (Journal Indexed in SCI)
- IV. **A COMPUTATIONAL STUDY FOCUSED ON REVEALING THE RELATION BETWEEN CONVECTIVE AND RADIATIVE HEAT TRANSFER FROM A RADIANT HEATED WALL**  
Açıkğöz Ö.  
HEAT TRANSFER RESEARCH, vol.50, pp.1437-1455, 2019 (Journal Indexed in SCI)
- V. **Experimental investigation on the viscosity characteristics of water based SiO<sub>2</sub>-graphite hybrid nanofluids**  
DALKILIÇ A. S. , AÇIKGÖZ Ö., KÜÇÜKYILDIRIM B. O. , Eker A., Lüleci B., Jumholkul C., Wongwises S.

International Communications in Heat and Mass Transfer, vol.97, pp.30-38, 2018 (Journal Indexed in SCI Expanded)

- VI. **An experimental investigation devoted to determine heat transfer characteristics in a radiant ceiling heating system**  
Koca A., Açıkgöz Ö., Çebi A., Çetin G., Dalkılıç A. S. , Wongwises S.  
Heat and Mass Transfer/Waerme- und Stoffuebertragung, vol.54, pp.363-375, 2018 (Journal Indexed in SCI)
- VII. **Prediction of frictional pressure drop of R134a during condensation inside smooth and corrugated tubes**  
DALKILIÇ A. S. , Çebi A., AÇIKGÖZ Ö., WONGWISES S.  
International Communications in Heat and Mass Transfer, vol.88, pp.183-193, 2017 (Journal Indexed in SCI)
- VIII. **A novel ANN-based approach to estimate heat transfer coefficients in radiant wall heating systems**  
AÇIKGÖZ Ö., Cebi A., DALKILIÇ A. S. , KOCA A., CETIN G., Gemici Z., WONGWISES S.  
ENERGY AND BUILDINGS, vol.144, pp.401-415, 2017 (Journal Indexed in SCI)
- IX. **Determination of Optimum Velocity for Various Nanofluids Flowing in a Double-Pipe Heat Exchanger**  
DALKILIÇ A. S. , AÇIKGÖZ Ö., GÜMÜŞ M. A. , WONGWISES S.  
HEAT TRANSFER ENGINEERING, vol.38, pp.11-25, 2017 (Journal Indexed in SCI)
- X. **Fundamental basis and implementation of shell and tube heat exchanger project design: condenser and evaporator study**  
DALKILIÇ A. S. , AÇIKGÖZ Ö., TAPAN Ş., WONGWISES S.  
HEAT AND MASS TRANSFER, vol.52, pp.2863-2878, 2016 (Journal Indexed in SCI)
- XI. **Prediction of graphite nanofluids' dynamic viscosity by means of artificial neural networks**  
Dalkılıç A. S. , Cebi A., Celen A., Yıldız O., Açıkgöz Ö., Jumholkul C., Bayrak M., Surana K., Wongwises S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.73, pp.33-42, 2016 (Journal Indexed in SCI)
- XII. **Experimental and numerical investigation of the correlation between radiative and convective heat-transfer coefficients at the cooled wall of a real-sized room**  
AÇIKGÖZ Ö., Kincay O.  
ENERGY AND BUILDINGS, vol.108, pp.257-266, 2015 (Journal Indexed in SCI)
- XIII. **A Review of Recent Empirical Correlations for the Calculation of Determination of R134a's Convective Heat Transfer Coefficient in Vertical Condensers**  
DALKILIÇ A. S. , AKTAŞ M. S. , AÇIKGÖZ Ö., WONGWISES S.  
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.69, pp.41-50, 2015 (Journal Indexed in SCI)
- XIV. **A novel evaluation regarding the influence of surface emissivity on radiative and total heat transfer coefficients in radiant heating systems by means of theoretical and numerical methods**  
Acikgoz O.  
ENERGY AND BUILDINGS, vol.102, pp.105-116, 2015 (Journal Indexed in SCI)
- XV. **INVESTIGATION ON THE RELATION BETWEEN EXERGY LOSS AND NTU**  
KINCAY O., Celik M. S. , Acikgoz O., Dalkilic A. S. , Wongwises S.  
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.35, pp.153-164, 2015 (Journal Indexed in SCI)
- XVI. **Numerical Determination of Effects of Wall Temperatures on Nusselt Number and Convective Heat Transfer Coefficient in Real-Size Rooms**  
AÇIKGÖZ Ö., Kincay O.  
ADVANCES IN MECHANICAL ENGINEERING, 2013 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **An experimental investigation on radiant floor heating systems at various operating conditions**  
Karakoyun Y., AÇIKGÖZ Ö., DALKILIÇ A. S. , YUMURTACI Z.

Journal of Thermal Engineering, vol.6, pp.751-771, 2020 (Journal Indexed in ESCI)

- II. **DETERMINATION OF CONVECTIVE, RADIATIVE, AND TOTAL HEAT TRANSFER CHARACTERISTICS OVER A RADIANT HEATED CEILING: A COMPUTATIONAL APPROACH**  
Açıkgöz Ö.  
JOURNAL OF THERMAL ENGINEERING, vol.5, pp.372-384, 2019 (Journal Indexed in ESCI)
- III. **DETERMINATION OF SOME DOMESTIC RADIATORS' THERMAL CAPACITY NUMERICALLY**  
Dalkılıç A. S. , Açıkgöz Ö., Ekici E., Wongwises S.  
JOURNAL OF THERMAL ENGINEERING, vol.5, pp.251-270, 2019 (Journal Indexed in ESCI)
- IV. **Dikey Tip Toprak Kaynaklı Isı Pompası Destekli Duvardan Isıtma Sisteminin Enerjistik Performans İncelenmesi**  
Akbulut U., Açıkgöz Ö., Kincay O.  
Tesisat Mühendisliği, pp.87-93, 2015 (Other Refereed National Journals)
- V. **Duvarın Isıtılabilir Yapılarda Dış Cephe Kaplamasının Isıl Performansa Etkisi**  
Kincay O., Akbulut U., Yörü Y., Açıkgöz Ö., Başkal A.  
Tesisat Mühendisliği, vol.119, pp.11-18, 2010 (Other Refereed National Journals)
- VI. **COMBINING TREND OF RENEWABLE ENERGY SOURCES**  
Kincay O., Utlu Z., Ağustos H., Akbulut U., Açıkgöz Ö.  
Sigma Journal of Engineering and Natural Sciences, vol.27, pp.60-82, 2009 (National Refreed University Journal)
- VII. **Dikey Tip Toprak Kaynaklı Isı Pompası Kullanımında Güneş Enerji Desteğinin Araştırılması**  
Ağustos H., Açıkgöz Ö., Akbulut U., Kincay O.  
Tesisat Mühendisliği, vol.106, pp.47-53, 2008 (Other Refereed National Journals)
- VIII. **Güneş Enerjisi ve Toprak Kaynaklı Isı Pompası Sistemlerinin Konvansiyonel Sistemlerle Ekonomik Olarak Karşılaştırılması**  
Kincay O., Akbulut U., Ağustos H., Açıkgöz Ö., Çetin Ö.  
Tesisat Mühendisliği, vol.106, pp.5-12, 2008 (Other Refereed National Journals)

## Books & Book Chapters

- I. **Exergetic analysis of a vertical ground-source heat pump system with wall heating/cooling**  
Akbulut U., Açıkgöz Ö., Kincay O., Karakoç T. H.  
in: Progress in Exergy, Energy, and the Environment, İbrahim Dinçer, Adnan Midilli, Haydar Küçük, Editor, Springer, London/Berlin , Lausanne, pp.305-312, 2014

## Refereed Congress / Symposium Publications in Proceedings

- I. **BRIEF LITERATURE REVIEW ON THE CONDENSATION HEAT TRANSFER CHARACTERISTICS OF HELICAL COILS**  
ÖNAL B. S. , KIRKAR Ş. M. , Akgül D., CELEN A., AÇIKGÖZ Ö., DALKILIÇ A. S. , Wongwises S.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, İstanbul, Turkey, 17 - 19 December 2019
- II. **BRIEF LITERATURE REVIEW ON THE BOILING HEAT TRANSFER CHARACTERISTICS OF INCLINED TUBES**  
Karademir H., AÇIKGÖZ Ö., CELEN A., DALKILIÇ A. S. , Wongwises S.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, İstanbul, Turkey, 17 - 19 December 2019
- III. **BRIEF LITERATURE REVIEW ON THE SINGLE-PHASE FLOW HEAT TRANSFER CHARACTERISTICS OF HELICAL COILS**  
Akgül D., KIRKAR Ş. M. , ÖNAL B. S. , CELEN A., AÇIKGÖZ Ö., DALKILIÇ A. S. , Wongwises S.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2019, İstanbul,

Turkey, 17 - 19 December 2019

- IV. **An Experimental Investigation on Heat Transfer Characteristics over an Underfloor Heating System**  
Açıkgöz Ö., Karakoyun Y., Dalkılıç A. S.  
4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2018, 19-21 DECEMBER 2018, İstanbul, Turkey, 19 - 21 December 2018, vol.1, pp.1831-1843
- V. **DETERMINATION OF THE VISCOSITY CHARACTERISTICS OF WATER BASED SiO<sub>2</sub>-GRAPHITE HYBRID NANOFLUIDS**  
Dalkılıç A. S. , Açıkgöz Ö., Küçükıldırım B. O. , Akdoğan Eker A.  
4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2018, 19-21 DECEMBER 2018, İstanbul, Turkey, 19 - 21 December 2018, vol.1, pp.1844-1855
- VI. **Experiments on Determination of Heat Transfer Coefficients for a Radiant Heated Enclosure**  
Karakoyun Y., Dalkılıç A. S. , Yumurtacı Z., Açıkgöz Ö., Demirtaş S.  
INTERNATIONAL ENGINEERING AND TECHNOLOGY SYMPOSIUM, Batman, Turkey, 3 - 05 May 2018, vol.1, no.1, pp.1240-1245
- VII. **An Investigation to Acquire Radiative Heat Transfer Coefficients in a Radiant Ceiling Cooling Application**  
Açıkgöz Ö., Celen A., Dalkılıç A. S.  
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017, İstanbul, Turkey, 19 - 21 December 2017, pp.1-15
- VIII. **An Investigation to Determine Heat Transfer Characteristics of R134a Used In Smooth and Microfin Pipes**  
Celen A., Dalkılıç A. S. , Açıkgöz Ö.  
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017, İstanbul, Turkey, 19 - 21 December 2017, pp.1-15
- IX. **AN EXAMINATION OF FLOW BOILING OF R134A THROUGH A MULTI-MICROCHANNEL HEAT SINK**  
Dalkılıç A. S. , Açıkgöz Ö., Wongwises S.  
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017, İstanbul, Turkey, 19 - 21 December 2017, pp.1-15
- X. **Validation of domestic radiators' thermal capacity with a numerical software**  
Dalkılıç A. S. , Açıkgöz Ö., Ekici E., Wongwises S.  
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, İstanbul, Turkey, 4 - 06 January 2017, pp.1-15
- XI. **Investigation and generalization of convective heat transfer in different room geometries**  
Açıkgöz Ö., Dalkılıç A. S. , Wongwises S.  
Conference on Mechanical and Production Engineering, Chon-Buri, Thailand, 13 - 14 July 2016, pp.1-15
- XII. **Determination of R134a s convective heat transfer coefficient in horizontal evaporators having smooth and corrugated tubes**  
Dalkılıç A. S. , Açıkgöz Ö., Tapan Ş., Wongwises S.  
International Conference on Mechanical and Production Engineering, Chon-Buri, Thailand, 13 - 14 May 2016
- XIII. **Experimental apparatus design for study of pool boiling heat transfer characteristics of Al<sub>2</sub>O<sub>3</sub> water nanofluids on a horizontal cylindrical heating surface**  
Dalkılıç A. S. , Açıkgöz Ö.  
International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 10 - 13 May 2016, pp.1-15
- XIV. **New approach on the determination of the total heat transfer coefficient in radiant wall heating systems**  
Açıkgöz Ö., Dalkılıç A. S.  
International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 10 - 13 May 2016, pp.1-15
- XV. **A numerical investigation on the convective heat transfer coefficient in radiant ceiling cooling systems**  
Açıkgöz Ö., Dalkılıç A. S.  
International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 10 - 13 May 2016, pp.1-15

- XVI. **Experimental apparatus design for study of heat transfer and flow characteristics of water flowing through internally grooved tubes**  
Dalkılıç A. S. , Açıkgöz Ö.  
International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 10 - 13 May 2016, pp.1-15
- XVII. **Fundamental Basis and Implementation of Shell and Tube Heat Exchanger Project Design: Condenser Study**  
Açıkgöz Ö., Dalkılıç A. S.  
INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS ISTANBUL 2015, İstanbul, Turkey, 23 - 25 December 2015, pp.1059-1066
- XVIII. **COMPUTATIONAL INVESTIGATION OVER CONVECTIVE HEAT TRANSFER IN RADIANT HEATED LIVING PLACES**  
Açıkgöz Ö., Dalkılıç A. S.  
INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS ISTANBUL 2015, İstanbul, Turkey, 23 - 25 December 2015, pp.1055-1058
- XIX. **The investigation of convective heat transfer in different room geometries by means of numerical solution techniques**  
AÇIKGÖZ Ö., DALKILIÇ A. S. , Kıncay O., Wongwises S.  
Energy Technologies Conference (ENTECH14), 22 - 24 December 2014
- XX. **Determination of the Effect of Wall Heating Systems on Convective Heat Transfer Coefficient in Buildings**  
AÇIKGÖZ Ö., Kıncay O., Utlu Z.  
International Conference on Advanced Material and Manufacturing Science (ICAMMS 2012), Beijing, China, 20 - 21 December 2012, pp.1630-1631
- XXI. **Support of solar energy on hybrid system**  
Açıkgöz Ö., Akbulut U., Ağustos H.  
21st International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems, Krakow, Poland, 24 - 27 June 2008, vol.1, no.1, pp.1177-1183

## Supported Projects

BİLGE Z. D. , ÇELEN A., DALKILIÇ A. S. , Ekici E., AÇIKGÖZ Ö., Project Supported by Higher Education Institutions, Nano Soğutucu Akışkanlı Buhar Sıkıştırma Soğutma Çevriminin Performansının Deneysel Olarak İncelenmesi, 2015 - 2018

TEMİR G., DALKILIÇ A. S. , KARAKOYUN Y., AKDOĞAN EKER A., AÇIKGÖZ Ö., KÜÇÜKYILDIRIM B. O. , Project Supported by Higher Education Institutions, Nano akışkanlarla radyant döşemeden ısıtmanın konveksiyon ve radyasyon açısından incelenmesi, 2015 - 2018

Kıncay O., Açıkgöz Ö., Keyf S., Yumurtacı Z., Project Supported by Higher Education Institutions, Rüzgar Enerjisi, Güneş Enerjisi, Toprak Kaynaklı Dikey Tip Isı Pompası, Isıl Enerji Depolama Sistem Bileşenleri ile Isıtma, Soğutma ve Aydınlatma Amaçlı Oluşturulacak Birleşik Yenilenebilir Enerji Sisteminin Modelleme ve Analizlerinin Gerçekleştirilmesi,, 2007 - 2011

## Activities in Scientific Journals

Journal of Thermal Engineering, Editor, 2015 - Continues

## Memberships / Tasks in Scientific Organizations

TMMOB Makine Mühendisleri Odası, Member, 2005 - Continues

## Scientific Refereeing

APPLIED THERMAL ENGINEERING, Journal Indexed in SCI-E, September 2019  
Applied Thermal Engineering, Journal Indexed in SCI-E, June 2019  
Journal of Thermal Engineering, Journal Indexed in ESCI, November 2018  
BUILDING AND ENVIRONMENT, SCI Journal, August 2018  
Journal of Thermal Engineering, Journal Indexed in ESCI, September 2016  
ENERGY, SCI Journal, August 2016  
APPLIED THERMAL ENGINEERING, Journal Indexed in SCI-E, August 2016  
ENERGY CONVERSION AND MANAGEMENT, SCI Journal, July 2016  
Journal of Thermal Engineering, Journal Indexed in ESCI, February 2016  
Energy And Buildings, Journal Indexed in SCI-E, October 2014  
ENERGY AND BUILDINGS, Journal Indexed in SCI-E, September 2014  
ENERGY AND BUILDINGS, Journal Indexed in SCI-E, April 2014  
ENERGY AND BUILDINGS, Journal Indexed in SCI-E, July 2013  
ENERGY AND BUILDINGS, Journal Indexed in SCI-E, May 2012

## Invited Congress and Symposium Activities

2nd International Conference on Mechanical and Aeronautical Engineering, Working Group, Thanyaburi, Thailand, 2016  
CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2016, Working Group, İstanbul, Turkey, 2016  
International Conference on Energy Systems, Working Group, İstanbul, Turkey, 2015  
Energy Technologies Conference (ENTECH 14), Working Group, İstanbul, Turkey, 2014  
11th International Conference on Sustainable Energy Technologies (SET-2012), Working Group, Vancouver, Canada, 2012  
Uluslararası Katılımlı Nükleer ve Alternatif Enerji Kaynakları TÜBAV Konferansı, NUYEK-2009, Working Group, Ankara, Turkey, 2009  
ECOS 2008, Working Group, Krakow, Poland, 2008  
Ulusal İklimlendirme Kongresi, Working Group, Antalya, Turkey, 2007

## Citations

Total Citations (WOS):143  
h-index (WOS):6

## Awards

Açıkgöz Ö., Tübitak Yayın Teşvik Ödülü, Tübitak, March 2016  
Açıkgöz Ö., Tübitak Yayın Teşvik Ödülü, Tübitak, March 2016  
Açıkgöz Ö., YAYIN TEŞVİK ÖDÜLÜ, Tübitak, August 2015